

## CLAIMS:

1. An arrangement (2) for projecting images, represented by image data, onto a projection surface (3), which arrangement (2) has the following means, namely:  
a projection system (24) that transmits the images that are to be projected and  
a scaling unit (22) for scaling the image data and  
5 movement detection means (28) for detecting an undesirable movement of the projection system (24), it being possible for said movement detection means (28) to transmit at least one movement information item (MI) that signifies an undesirable movement of the projection system (24), and  
processing means (25) for processing the movement information item (MI),  
10 which processing means (25) have a stage (32) for generating a scaling control information item (SCI) as a function of the movement information item (MI), and  
scaling influencing means (33), which can be fed the scaling control information item (SCI) and which are designed to influence the scaling of the image data, as a result of which an undesirable movement of the images projected onto the projection  
15 surface (3), caused by the undesirable movement of the projection system (24), can at least be reduced.
2. An arrangement (2) as claimed in claim 1, wherein the stage (32) for generating the scaling control information item (SCI) is formed by conversion means, which  
20 conversion means can be fed an analog movement information item (AMI) by the movement detection means (28) and which are designed to generate a pixel displacement information item as scaling control information item (SCI), and wherein the scaling influencing means (33) are formed by pixel displacement means.
- 25 3. An arrangement (2) as claimed in claim 1, wherein the movement detection means (28) are designed to detect the undesirable movement of the projection system (24), which undesirable movement results in an undesirable movement of the projected images in the direction of an image height (IH).

4. An arrangement (2) as claimed in claim 1, wherein the movement detection means (28) have a pendulum (29), which pendulum (29) is mechanically connected to the projection system (24), and a pendulum movement detector (30) which interacts with the pendulum (29), it being possible for the pendulum movement detector (30) to transmit an excursion of the pendulum (29) as movement information item (MI).

5. An arrangement (2) as claimed in claim 4, wherein the pendulum movement detector (30) is formed by a Hall sensor.

6. A method of projecting images, represented by image data, onto a projection surface (3), in which method the following steps are carried out, namely:

transmission, by means of a projection system (24), of images that are to be projected and

scaling of the image data and

detection of an undesirable movement of the projection system (24), during which detection at least one movement information item (MI) that signifies an undesirable movement of the projection system (24) is transmitted, and

processing of the movement information item (MI), during which processing a scaling control information item (SCI) is generated as a function of the movement

information item (MI), and

influencing of the scaling of the image data, wherein an undesirable movement of the images projected onto the projection surface (3), caused by the undesirable movement of the projection system (24), is at least reduced.